

Opti Panel LP PIR N5 Roof Panel



Product Information

Opti Panel LP PIR N5 Roof panel is a five ribs profilled roof panel. Its biggest advantage is that it enables quick installation thanks to the side overlap panel connection.

Production Plant

İstanbul, İskenderun ve Balıkesir

Product Application

- Industrial Buildings
- Military Buildings
- Public Buildings
- Agricultural Buildings
- Sports Facilities
- Construction Site Buildings
- Silos
- Hypermarkets
- Shopping Centers
- Storehouse Halls
- · Administrative Buildings

and all other concrete structures with steel or prefabricated load bearing systems.

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Performance Advantages

Good heat insulation values.

It has 5 ribs.

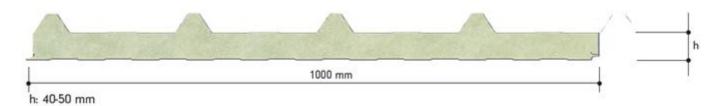
Fast and problem-free assembly saves both time and labor.

Polyurethane does not keep water within its body and it does not accommodate bacteria and insects.

Thanks to n-Pentane which is used to inflate the Polyurethane, no damage is caused to nature.

The colorful surface does not require additional coating like plaster or paint.

Measurements



| Favorable Width | 1000 mm | |
|-----------------|--------------------------------------|--|
| Minimum Height | 3 meter | |
| Maximum Height | Depends on the transport conditions. | |

Polyisocyanurate (PIR)



| Polyurethane Density (EN 1602) | 38±2 kg/m³ |
|---------------------------------|--|
| Polyurethane Density | 40-50 mm |
| Thermal Conductivity (EN 13165) | 0,022-0,024 W/mK |
| External Facing Thickness | 0,60-0,35 mm |
| Internal Facing Thickness | 0,50-0,30 mm |
| Steel Quality (EN 10327) | Dx51 D+Z Prepainted Galvanized Steel (last coat polyester paint on primer) |



Thermal Conductivity Values

| Thickness | Thermal Conductivity (W/m²K) | Thermal Resistance (m²K /W) | Thermal Resistance (ft² °F h/Btu) |
|-----------|------------------------------|--------------------------------|--------------------------------------|
| 40 mm | 0,575 | 1,739 | 9,875 |
| 50 mm | 0,460 | 2,174 | 12,343 |

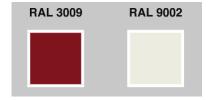
Mechanical Properties

| Steel Surface Yield Strength | Min. 220 N /mm² (BGS) | |
|---------------------------------------|-----------------------|--|
| Panel Tensile Strength | Min. 0,018 Mpa | |
| Compressive Strength of Core Material | Min. 0,095 Mpa | |

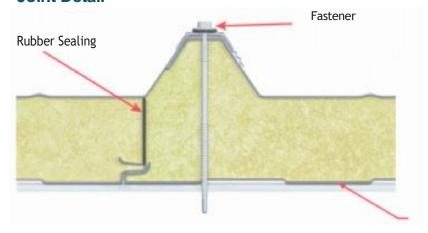
Tolerance Properties

| Panel Length | Panel Thickness | Panel Cover Width |
|---|------------------|------------------------|
| If L<=3000 mm, -±5 mm; If L>3000 mm, ±10 mm | D ≤ 100 mm ±2 mm | ±2 mm for all profiles |

Standard Colour Options

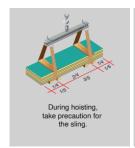


Joint Detail



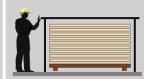
Bearing System

Transportation and Protection of Sandwich Panel

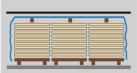




Do not drag panels in a pile, or on the roof purlins. Lift panels from both ends when moving or laying in place.



Panels to be strored on site for long periods should be stacked in covered areas. Wherever possible, always place stacks preferably on wooden wedges, against ground water.



For shorter periods, stacks should be arranged on sloppy areas with a simple scaffolding and polyethilen cover, leaving space for ventilation. Place stacks on a simple wedge.



Do not walk on panels.